

## S5-1.2

# Static Analysis of the Human Body Balance Following an Induced Vertigo

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This paper is aimed towards a static evaluation of the human body balance, on a force platform such as Kistler platform, following an induced vertigo by spinning the subject. Vertigo is the feeling of spinning even when the person stays in place. The environment seems to move vertically or horizontally. Some people feel like they're spinning. The effect may be easy or hardly noticeable, or it may be so severe that the subject may fall to the ground. Vertigo is more severe than dizziness, described as a slight uncertainty in orthostatic position. Dizziness can make the movement difficult, as the feeling of rotation affects the balance. The recorded values were acquired at a frequency of 100 Hz for 30 seconds, which led to the recording of 3000 values for every different parameter. A specialized numerical analysis software, Interactive Data Language (IDL), was used for the realization of the graphs and the statistical analysis of the results obtained on the Kistler force platform.